## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE                                    |
|---------------------------|----------|--------|---|
| FEE DETERMINATION         | Mesay    |        | 10-16-01                                |
| O.I.P.E. CLASSIFIER       | 7        |        | , |
| FORMALITY REVIEW          | CN       | C03    | 11-14-07                                |
| RESPONSE FORMALITY REVIEW |          |        | 7                                       |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N   | Non-elected  |
|---|----------------------------|-----|--------------|
| = | Allowed                    | - 1 | Interference |
| _ | (Through numeral) Canceled | Α   | Appeal       |
|   | Restricted                 | 0   | Objected     |

|          |          |              |  |                |              | _          |            |          |          |          |          |   | _        |          |          |          |              |          |              |           |              |          |   |          | , |          |            |        |           |         |
|----------|----------|--------------|--|----------------|--------------|------------|------------|----------|----------|----------|----------|---|----------|----------|----------|----------|--------------|----------|--------------|-----------|--------------|----------|---|----------|---|----------|------------|--------|-----------|---------|
| Cla      |          |              |  |                |              | Dat        | e          |          | ,        |          | _        |   | Cla      | im       |          |          | ,            |          | Dat          | е         |              |          |   |          |   | Cla      | im         |        | _         |         |
| inal     | Ortginal | けんら          |  |                |              |            |            |          |          |          |          |   | Final    | Original |          |          |              |          |              |           |              |          |   |          |   | Final    | Original   |        |           |         |
| ╚        | Ž        | <u> </u>     | $\vdash$   |                |              | H          | H          |          |          | $\dashv$ | $\dashv$ |   | _        | 51       | 7        | -        |              | $\dashv$ |              | $\exists$ |              |          | _ | $\dashv$ | İ |          | 101        | $\top$ | $\dagger$ | +       |
|          | 2        | V            |  | -              |              |            |            |          |          | $\neg$   |          |   |          | 52       |          |          |              | _        |              |           |              |          |   |          |   |          | 102        | T      |           | T       |
| T        | 3        | Š            | Г  | $\vdash$       |              |            |            |          |          | T        |          |   |          | 53       |          |          |              | $\neg$   |              |           |              |          |   |          | ı |          | 103        |        |           | $\top$  |
|          | 4        | V            |  |                |              |            |            |          |          |          |          |   |          | 54       |          |          |              |          |              |           |              |          |   |          | ļ |          | 104        |        |           | 工       |
|          | 5        | >            |  |                |              |            |            |          |          |          |          |   |          | 55       | ·        |          |              |          |              |           |              |          |   |          |   |          | 105        | _      | 1         |         |
|          |          | 0            |  | L              | <u>L</u>     |            |            |          |          | $\perp$  | _        |   |          | 56       | _        |          |              |          |              |           |              |          |   |          |   |          | 106        | _      | 4         |         |
| $\perp$  | 7        | ٧            | <u> </u>   | _              |              | _          |            |          | Ш        | _        |          |   | ļ        | 57       | _        |          | _            |          |              |           |              |          |   | 1        |   |          | 107        | +      | 4         |         |
| _        | 8        | 0            | _  | <u> </u>       | _            | _          |            |          |          |          | _        |   | <u> </u> | 58       |          | $\dashv$ | _            | _        |              |           |              |          | _ |          |   |          | 108        | +      | 4         | +       |
| -        | 9        | V            | <u> </u>   |                | ┞-           |            |            | _        | Н        |          |          |   | <u> </u> | 59       | 4        | -1       | $\dashv$     |          |              |           |              |          |   | _        | ļ |          | 109<br>110 | +      | +         |         |
| ┝        | 10<br>11 | V            | -  |                | ⊢            | ⊢          |            | <u> </u> | Н        | $\dashv$ |          |   |          | 60<br>61 | $\dashv$ | $\dashv$ |              | _        |              |           |              |          | _ | _        |   |          | 111        | +      | +         | +       |
| $\vdash$ | 12       | -            | -  | -              | -            | _          |            |          | H        | $\dashv$ | -        |   | $\vdash$ | 62       | $\dashv$ |          | $\dashv$     | $\dashv$ |              |           |              |          | - |          |   |          | 112        | +      | +         | +       |
| $\vdash$ | 13       | $\vdash$     |  | $\vdash$       |              |            | $\vdash$   | <u> </u> | $\vdash$ | -        |          |   | $\vdash$ | 63       | $\dashv$ |          | -            | _        |              | Н         |              | -        |   | H        |   | -        | 113        | +      | +         | +       |
| -        | 14       | 一            | _  | $\vdash$       | ╁            | -          | -          | $\vdash$ | Н        | $\dashv$ | -        |   | $\vdash$ | 64       | $\dashv$ |          | $\dashv$     |          | -            |           | -            |          |   | $\dashv$ |   | -        | 114        | +      | $\dagger$ | +       |
| $\vdash$ | 154      | <b>/</b> -   | H  | H              | ┢            | 一          | -          | H        |          |          |          |   |          | 65       | -        |          |              |          |              |           | _            |          |   |          |   |          | 115        | 1      | $\dagger$ | 十       |
| $\vdash$ | 16       | <del> </del> | $\vdash$   | H              | $\vdash$     | H          | H          | ┢        | Н        | $\dashv$ |          |   | $\vdash$ | 66       |          | ٦        | П            |          |              |           | П            |          |   |          |   |          | 116        | $\top$ | †         | 1       |
| $\vdash$ | 17       | ┢            | <u> </u>   | t –            |              |            | T          | $\vdash$ |          |          |          |   |          | 67       | 寸        |          |              |          |              |           |              |          |   |          |   |          | 117        | ┰      | 1         | 十       |
| F        | 18       | _            | Τ  |                |              |            | Т          | _        |          |          |          |   |          | 68       |          |          |              |          |              |           |              |          |   |          |   |          | 118        |        |           | floor   |
| Г        | 19       | Γ            |  | T              |              |            |            |          |          |          |          |   |          | 69       |          |          |              |          |              |           |              |          |   |          |   |          | 119        |        | I         | $\perp$ |
|          | 20       |              |  |                |              |            | Г          |          |          |          |          |   |          | 70       |          |          |              |          |              |           |              |          |   |          |   |          | 120        | Т      |           | T       |
| T        | 21       | _            | T  |                |              | П          |            |          |          |          |          |   |          | 71       |          |          |              |          |              |           |              |          |   |          |   |          | 121        |        |           |         |
|          | 22       |              |  | 1              |              |            |            |          |          |          |          |   |          | 72       |          |          |              |          |              |           |              |          |   |          |   |          | 122        |        |           | $\perp$ |
|          | 23       |              |  |                |              |            |            |          |          |          |          |   |          | 73       |          |          |              |          |              |           |              |          |   | <u> </u> |   |          | 123        | 1      | 1         | $\bot$  |
|          | 24       |              | L  |                |              |            |            |          | Ш        |          |          |   | L        | 74       |          |          |              |          |              | _         | ļ            |          |   |          |   |          | 124        | _      | 4         | 4       |
| <u> </u> | 25       | L            | <u></u>  | <u></u>        | <u> </u>     | _          |            | L.       |          |          |          |   | L        | 75       | _        |          |              |          |              | _         | <u> </u>     |          |   |          |   |          | 125        | _      | 4         |         |
| $\perp$  | 26       |              | L  | _              |              |            | <u> </u>   | <u> </u> |          |          |          |   | <u> </u> | 76       |          |          |              |          |              | ļ         | _            |          |   | <u> </u> |   | _        | 126        | 4-     | 4         | +       |
| <u>_</u> | 27       |              | _  |                |              | <u> </u>   |            | <u> </u> |          | Ш        | _        |   | <u> </u> | 77       | _        |          |              |          | _            | <u> </u>  |              |          |   | H        |   | _        | 127        | -      | +         | +       |
| L        | 28       | _            | ├_   |                | -            |            |            | _        | Ш        | Ш        |          |   | ┝        | 78<br>79 | -        | _        |              |          | <u> </u>     | ┝         | ┝            | _        | - | <u> </u> |   | _        | 128<br>129 | +      | +         |         |
| -        | 29       |              | <u> </u>   |                | ├            | <u> </u>   | _          | <u> </u> | -        |          | _        |   | ├—       | 80       | -        |          |              |          | _            |           |              | _        |   | H        |   |          | 130        | +      | +         | +       |
| $\vdash$ | 30<br>31 | -            |  |                | <del> </del> | H          | ⊢          | <u> </u> | H        | -        |          |   | ⊢        | 81       |          | _        |              | _        | -            | ├         | ┝            |          |   | -        |   | -        | 131        | +      | +         | +       |
| -        | 32       |              | -  |                |              | -          | H          | ⊢        | -        | $\dashv$ |          |   | ┝        | 82       | -        |          | _            |          | <del>-</del> | ├         |              |          | _ | $\vdash$ |   | -        | 132        | +      | +         | +       |
| $\vdash$ | 33       | <del> </del> | $\vdash$   | -              | ┢╌           |            | -          | ┢        | -        | Н        |          |   | ⊢        | 83       | $\dashv$ |          |              |          | -            | $\vdash$  | $\vdash$     |          |   | -        |   |          | 133        | - -    | +         |         |
| -        | 34       |              |  | <del>  -</del> |              |            | $\vdash$   | -        | $\vdash$ | $\vdash$ | _        |   |          | 84       | $\dashv$ |          | -            | _        | Н            | $\vdash$  | <del> </del> | _        | _ |          |   | -        | 134        | 十      | $\dagger$ | +       |
| $\vdash$ | 35       |              | $\vdash$   |                |              | $\vdash$   |            | H        |          | H        | -        |   |          | 85       | $\neg$   |          |              |          | <u> </u>     |           |              |          | - |          |   |          | 135        | -      | +         | $\top$  |
|          | 36       | $I^-$        | _  | T              |              |            | $\vdash$   | <u> </u> |          | Н        | _        |   |          | 86       | $\dashv$ |          |              |          | Г            | _         |              |          |   | Г        |   |          | 136        | 丁      | ╛         |         |
|          | 37       |              | <del>                                     </del> | Г              |              |            | Г          |          |          |          |          |   |          | 87       |          |          |              |          |              |           |              |          |   |          |   |          | 137        | I      | I         | 工       |
|          | 38       |              |  |                |              |            |            |          |          |          |          |   |          | 88       |          |          |              |          |              |           |              |          |   |          |   |          | 138        |        | $\perp$   |         |
|          | 39       |              |  |                |              |            |            |          |          |          |          |   |          | 89       |          |          |              |          |              |           |              |          |   |          |   |          | 139        |        | $\perp$   | $\perp$ |
|          | 40       |              | Γ  | Γ              |              |            | Γ          |          |          |          |          |   |          | 90       |          |          |              |          |              |           |              | L        |   |          |   |          | 140        |        |           | $\perp$ |
| Г        | 41       |              |  |                |              | Γ          |            |          |          |          |          |   |          | 91       |          |          |              |          |              |           |              |          |   |          |   |          | 141        |        |           |         |
|          | 42       |              |  |                |              |            |            |          |          |          |          |   |          | 92       |          |          |              |          |              |           |              |          |   |          |   |          | 142        |        | $\perp$   | $\perp$ |
|          | 48       |              |  |                |              |            |            |          |          |          |          | İ |          | 93       |          |          |              |          |              |           |              |          |   | L        |   |          | 143        |        | 4         | Ц.      |
| L        | 44       |              |  |                |              |            |            | L        | L        |          |          |   |          | 94       |          |          | $oxed{oxed}$ | L.       | L_           | <u> </u>  | L            | ,        |   | _        |   | L.       | 144        | _      | 4         |         |
|          | 45       | Ľ            |  |                | $\Box$       |            |            |          |          | Ц        |          |   |          | 95       |          |          |              |          |              | L.        |              | L        | _ | L        |   | <u> </u> | 145        | 4      | 1         | _       |
|          | 46       | _            |  | L              | L            | _          | <u> </u>   | <u> </u> |          | Ш        |          |   | <u> </u> | 96       | $\perp$  |          | H            | <u> </u> | $\vdash$     | L         | <u> </u>     | -        |   | L        |   | $\vdash$ | 146        | 4      | 4         | +       |
| _        | 47       | L            |  |                | _            | <u>L</u> . | _          | <u> </u> |          | _        |          |   |          | 97       | _        |          |              | <u> </u> | _            | <u> </u>  | <u> </u>     | <u> </u> |   | _        |   | $\vdash$ | 147        |        | +         | +       |
| $\vdash$ | 48       | <u> </u>     | _  | $\vdash$       | -            |            | L          | _        |          | H        |          |   |          | 98<br>99 |          |          | H            | _        | $\vdash$     | $\vdash$  | $\vdash$     | $\vdash$ |   |          |   | $\vdash$ | 148        |        | +         | +       |
| $\vdash$ | 49       | $\vdash$     |  | $\vdash$       | ₩            | <b> </b> - | <b> </b> _ |          | _        | Ļ.       |          |   | <u> </u> | 100      | -        |          | <u> </u>     | _        | <u> </u>     | -         | <b>—</b>     |          |   | <b> </b> |   | ├—       | 149        | +      | +         | +       |

| _            |          |              |  |          |              |          |          |          |              |          |  |
|--------------|----------|--------------|--|----------|--------------|----------|----------|----------|--------------|----------|--|
| Cla          | im       |              |  |          |              | Dat      | е        |          |              |          |  |
| Final        | Original |              |  |          |              |          |          |          |              |          |  |
| ۳            | 101      | _            | H  |          |              | $\vdash$ | Н        |          |              | Н        | -  |
|              |          |              |  |          | _            | -        |          |          |              | -        | -  |
|              | 102      | _            |  |          |              |          | $\vdash$ |          | _            | Н        |  |
|              | 103      |              |  |          |              |          |          |          | Ш            | Ш        | L.   |
|              | 104      |              |  |          |              |          |          |          |              | Ш        | _  |
| L            | 105      |              |  |          |              |          |          | _        |              |          | _  |
| <u> </u>     | 106      | L            | L  |          |              |          |          |          |              |          | L.   |
|              | 107      |              |  |          |              |          |          |          |              |          | _  |
|              | 108      |              |  |          |              |          |          |          | L            |          |  |
|              | 109      |              |  |          |              |          |          |          | 16270        | ۳.       |  |
|              | 110      |              |  |          |              |          |          |          |              |          |  |
| Γ.           | 111      |              |  |          |              |          |          |          |              |          |  |
|              | 112      |              |  |          |              |          |          |          |              |          |  |
|              | 113      | _            |  |          | Г            |          | Г        |          |              | Г        |  |
|              | 114      |              |  |          |              |          |          |          |              |          |  |
|              | 115      |              |  |          | _            |          |          |          |              | Г        | Г  |
| ┢╌           | 116      |              | $\vdash$   | Т        |              |          | T        |          |              | $\vdash$ | Г  |
|              | 117      |              | <del>                                     </del> | $\vdash$ | $\vdash$     | $\vdash$ |          |          |              | Н        | <del>                                     </del> |
| ┢            | 118      |              |  | H        | _            | -        |          |          | -            | 1        | ┢  |
|              | 119      |              | ╁╾   | $\vdash$ | $\vdash$     | ┢        |          | $\vdash$ |              | H        |  |
|              | 120      |              | $\vdash$   | $\vdash$ | ⊢            |          |          | ⊢        |              | ╁╌       | ╁  |
|              |          |              | _  | _        |              | <u> </u> | <b>├</b> | ⊢        | ├-           | ⊢        | ┝  |
|              | 121      |              | <u> </u>   | _        | <u> </u>     | ┞        | <u> </u> | <u> </u> | _            | <b>—</b> | ┞  |
|              | 122      |              | <u> </u>   | <u> </u> | _            | L        | ļ        | <u> </u> | <u> </u>     | -        | L  |
| <u> </u>     | 123      |              |  | _        |              | ļ        | <u> </u> | _        | <u> </u>     | ┞-       | <del> </del>                                     |
|              | 124      |              | <u> </u>   | <u> </u> |              | L        |          | <u> </u> | L            | L        | L  |
|              | 125      |              | <u> </u>   |          | L            |          | <u> </u> | L.       |              | <u> </u> | L  |
|              | 126      |              | L  | _        |              | _        |          |          |              |          | L  |
| <u> </u>     | 127      |              |  |          |              |          | L.       |          | L            | <u> </u> | L  |
| L            | 128      |              |  |          |              | _        | L        | L        | <u> </u>     |          | L  |
| L_           | 129      |              |  |          |              | L        |          |          | <u>L</u>     | <u> </u> | L  |
| L            | 130      |              |  | L        | L            |          |          |          | <u> </u>     |          | L  |
| L.           | 131      |              |  |          |              |          |          |          | L            |          | L  |
|              | 132      |              |  |          | <u> </u>     |          |          |          | <u></u>      |          | L  |
| П            | 133      | T            | П  |          |              |          |          |          |              |          |  |
| Г            | 134      |              | П  |          | П            |          |          |          |              |          |  |
|              | 135      | 1            | Π  | Γ        |              |          | Π        |          |              | Г        | Γ  |
|              | 13€      |              |  |          |              |          | Г        |          |              |          | Γ  |
| Г            | 137      |              | Γ  | Г        | Π            | Г        |          |          | Г            |          | Γ  |
|              | 138      |              |  |          |              |          |          | l        | Γ            | Γ        |  |
| _            | 139      |              |  | Г        | 1            |          | Г        | Γ        | 1            | Γ        | Т  |
|              | 140      | _            | 1  |          |              |          | Γ.       |          |              |          | T  |
| ┝            | 141      |              | $\vdash$   | ┢╌       | $\vdash$     | $\vdash$ | $\vdash$ |          |              | t-       | t  |
| ┝            | ┿        | <del>!</del> | -  | $\vdash$ | ┢            | $\vdash$ | ╁        | ├        | <del> </del> | ├-       | ╁╴   |
| <del> </del> | 142      |              | -  | ├-       | $\vdash$     | ├-       | $\vdash$ | ├        | ├            | +-       | $\vdash$   |
| $\vdash$     |          |              |  | $\vdash$ | <del> </del> |          | ├        |          | <del> </del> | $\vdash$ | $\vdash$   |
| $\vdash$     | 144      |              | ├-   | $\vdash$ | <b> </b>     | ⊢        | ⊢        | ⊢        | -            | -        | ┼  |
| <u> </u>     | 145      |              | -  | -        | $\vdash$     | $\vdash$ | ├-       | ⊢        | ├            | $\vdash$ | $\vdash$   |
| ⊢            | 146      |              | <u> </u>   | <b> </b> | ⊢            | 1_       | $\vdash$ | <u> </u> | ₩            | ╀        | +  |
| <u> </u>     | 147      |              | <u> </u>   | <u> </u> | L            | <u> </u> | <u> </u> | <u> </u> | $\vdash$     | $\vdash$ | $\vdash$   |
| <u> </u>     | 148      | 1            | <u> </u>   | L        |              | <u> </u> | <u> </u> | $\vdash$ | <b> </b>     | $\vdash$ | 1  |
| <u> </u>     | 149      | 1_           |  | _        | _            | L_       | oxdot    | <b> </b> | ـــا         | L        | 1  |
| L            | 150      |              | L  | <u>L</u> | <u> </u>     | L_       | _        | L_       | Ш.           | <u></u>  | l  |
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